

LISTING OF CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (Currently Amended) An apparatus for use with a clamp including first and second clamp members, the apparatus comprising:

a base member having a main portion that includes a first side that defines a groove therein and a second side opposite of the first side, and including a mating structure extending from the second side and defining a groove therein, the mating structure being configured for removably securing the base member to the first clamp member;

a support member, the groove formed within the base member being configured to receive the support member;

a coagulation element carried by the support member; and

a stimulation element carried by the support member.

2. (Previously Amended) An apparatus as claimed in claim 1, wherein the base member includes a mating structure configured to mate with the first clamp member.

3. (Previously Amended) An apparatus as claimed in claim 2, wherein the base member mating structure comprises a relatively narrow portion and a relatively wide portion.

4. (Original) An apparatus as claimed in claim 1, wherein the coagulation element defines a coagulation element configuration, the stimulation element defines a stimulation element configuration, and the stimulation element configuration is different than the coagulation element configuration.

5. (Original) An apparatus as claimed in claim 1, wherein the coagulation element comprises a coagulation electrode.

6. (Original) An apparatus as claimed in claim 5, wherein the stimulation element comprises a stimulation electrode.

7. (Original) An apparatus as claimed in claim 6, wherein the coagulation electrode defines a coagulation electrode length, the stimulation electrode defines a stimulation electrode length, and the coagulation electrode length is greater than the stimulation electrode length.
8. (Original) An apparatus as claimed in claim 1, wherein the stimulation element comprises a stimulation electrode.
9. (Withdrawn) An apparatus as claimed in claim 1, wherein the stimulation element comprises a stimulation electrode pair.
10. (Original) An apparatus as claimed in claim 1 further comprising: first and second coagulation element wires connected to the coagulation element.
11. (Original) An apparatus as claimed in claim 1, wherein the stimulation element is located distally of the coagulation element.
12. (Withdrawn) An apparatus as claimed in claim 1, wherein the stimulation element comprises first and second stimulation elements on opposite sides of the coagulation element.
13. (Previously Amended) An apparatus as claimed in claim 1, further comprising
a second base member configured to be removably secured to the second clamp member,
a second support member, the second base member configured to receive the second support member, a second coagulation element carried by the second support member, and a second stimulation element carried by the second support member.

14. (Currently Amended) An apparatus, comprising:

a clamp including a first clamp member, a second clamp member, and movement apparatus that moves at least one of the first and second clamp members relative to the other of the first and second clamp members such that the surgical apparatus has an open state and a closed state;

a base member having a main portion that includes a first side that defines a groove therein and a second side opposite of the first side, and including a mating structure extending from the second side and defining a groove therein, the mating structure being configured for removably securing the base member to the first clamp member;

a support member, the groove formed within the base member being configured to receive the support member;

a coagulation element carried by the support member; and

a stimulation element carried by the support member.

15. (Original) An apparatus as claimed in claim 14, wherein the coagulation element comprises a coagulation electrode.

16. (Original) An apparatus as claimed in claim 15, wherein the stimulation element comprises a stimulation electrode.

17. (Original) An apparatus as claimed in claim 16, wherein the coagulation electrode defines a coagulation electrode length, the stimulation electrode defines a stimulation electrode length, and the coagulation electrode length is greater than the stimulation electrode length.

18. (Original) An apparatus as claimed in claim 14, wherein the stimulation element comprises a stimulation electrode.

19. (Withdrawn) An apparatus as claimed in claim 14, wherein the stimulation element comprises a stimulation electrode pair.

20. (Original) An apparatus as claimed in claim 14, further comprising: first and second coagulation element wires connected to the coagulation element.

21. (Withdrawn) An apparatus as claimed in claim 14, wherein the stimulation element comprises first and second stimulation elements on opposite sides of the coagulation element.

22. (Previously Amended) An apparatus as claimed in claim 14, further comprising a second base member, a second support member, the second base member being configured to receive the second support member, a second coagulation element carried by the second support member; and a second stimulation element carried by the second support member.

23. (Withdrawn) An apparatus as claimed in claim 22, wherein the first stimulation element comprises a pair of stimulation elements on opposite sides of the first coagulation element and the second stimulation element comprises a pair of stimulation elements on opposite sides of the second coagulation element.

24-37. (Canceled).

38. (Currently Amended) A surgical system, comprising
a source of coagulation energy;
a source of stimulation energy; and
an apparatus including a clamp having a first clamp member, a second clamp member, and movement apparatus that moves at least one of the first and second clamp members relative to the other of the first and second clamp members such that the surgical apparatus has an open state and a closed state, a base member having a main portion that includes a first side that defines a groove therein and a second side opposite of the first side, and including a mating structure extending from the second side and defining a groove therein, the mating structure being configured for removably securing the base member to the a first clamp member, a support member, the groove formed within the base member being configured to receive the support member, a coagulation element carried by the support member, and a stimulation element carried by the support member.

39. (Original) A surgical system as claimed in claim 38, wherein the coagulation element defines a coagulation element configuration, the stimulation element defines a stimulation element configuration, and the stimulation element configuration is different than the coagulation element configuration.

40. (Original) A surgical system as claimed in claim 38, wherein the coagulation element comprises a coagulation electrode.

41. (Original) A surgical system as claimed in claim 40, wherein the stimulation element comprises a stimulation electrode.

42. (Original) A surgical system as claimed in claim 41, wherein the coagulation electrode defines a coagulation electrode length, the stimulation electrode defines a stimulation electrode length, and the coagulation electrode length is greater than the stimulation electrode length.

43. (Original) A surgical system as claimed in claim 38, wherein the stimulation element comprises a stimulation electrode.

44. (Withdrawn) A surgical system as claimed in claim 38, wherein the stimulation element comprises first and second stimulation elements on opposite sides of the coagulation element.

45. (Previously Amended) A surgical system as claimed in claim 38, further comprising: a second base member configured to be removably secured to the second clamp member, a second support member, the second base member being configured to receive the second support member, a second coagulation element carried by the second support member; and a second stimulation element carried by the second support member.

46. (Withdrawn) A surgical system as claimed in claim 45, wherein the first stimulation element comprises a pair of stimulation elements on opposite sides of the first coagulation element and the second stimulation element comprises a pair of stimulation elements on opposite sides of the second coagulation element.

47. (Currently Amended) An apparatus for use with a clamp including first and second clamp members, the apparatus comprising:

a base member having a main portion that includes a first side that defines a groove therein and a second side opposite of the first side, and including a mating structure extending from the second side and defining a groove therein, the mating structure being configured for removably securing the base member to the first clamp member;

a support member, the groove formed within the base member being configured to receive a distal portion of the support member;

means, carried by the support member, for transmitting coagulation energy to tissue; and

means, carried by the support member, for transmitting stimulation energy to tissue.

48. (Previously Amended) An apparatus as claimed in claim 47, wherein the base member includes a mating structure configured to mate with the at least one of the first and second clamp members.

49. (Previously Amended) An apparatus as claimed in claim 48, wherein the base member mating structure comprises a relatively narrow portion and a relative wide portion.

50. (Previously Presented) An apparatus as claimed in claim 47 further comprising:

first and second wires connected to the means for transmitting coagulation energy to tissue.

51. (Previously Presented) An apparatus as claimed in claim 47, wherein means for transmitting stimulation energy to tissue is located distally of the means for transmitting coagulating energy to tissue.

52. (Previously Amended) An apparatus as claimed in claim 47, further comprising:
a second base member configured to be removably secured to the second clamp member;
a second support member, the second base member being configured to receive the second support member;
second means, carried by the second support member, for transmitting coagulation energy to tissue; and
second means, carried by the second support member, for transmitting stimulation energy to tissue.
53. (Previously Presented) The apparatus of claim 1, wherein the base member is formed from a polymer.
54. (Previously Presented) The apparatus of claim 53, wherein the base member is formed from polyurethane.
55. (Previously Presented) The apparatus of claim 1, further comprising an adhesive that holds the coagulation element and the support member in place.
56. (Previously Presented) The apparatus of claim 1, wherein the mating structure is configured for slidably securing the base member to the first clamp member.
57. (Previously Presented) The apparatus of claim 1, wherein the coagulation element is carried on the support member, the support member being positioned within the coagulation element.
58. (Previously Presented) The apparatus of claim 1, wherein the base member is formed from a non-metallic material.
59. (Previously Presented) The apparatus of claim 1, wherein segments of the base member extend around a top portion of the support member to hold the support member within the groove.